



# Maryland Energy Administration

September 30, 2022

Strategic Energy Investment Advisory Board (SEIAB)  
Meeting

An aerial photograph of a large, modern, multi-story building with a prominent glass facade and a flat roof. The building is surrounded by extensive solar panel arrays installed on the ground and on the roof of a large parking structure. The area is lush with green trees and a clear sky. A semi-transparent blue banner is overlaid at the bottom of the image, containing text.

# Mary Beth Tung, Ph.D., Esq. - Director, MEA

Welcoming Remarks



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# Strategic Energy Investment Fund (SEIF)

Fund comprised of revenue from multiple sources intended to decrease energy demand and increase energy supply

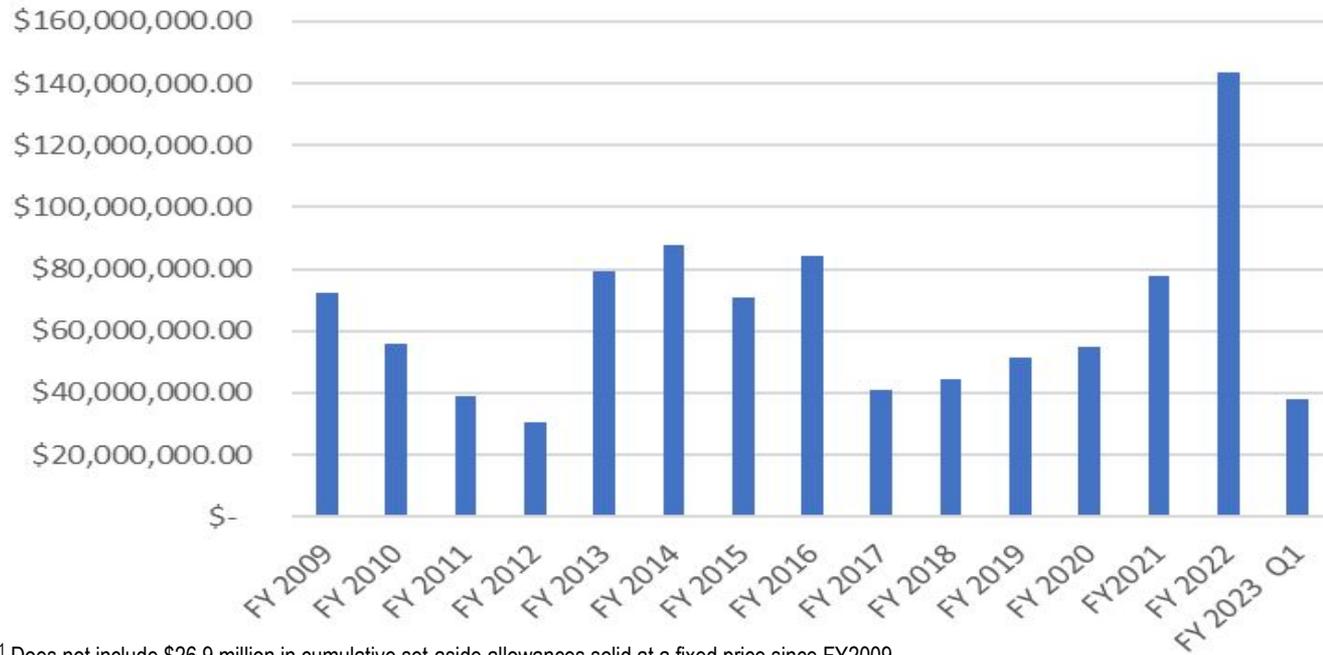
- Revenues from Regional Greenhouse Gas Initiative (RGGI) Auctions
- Renewable Portfolio Standard (RPS) Alternative Compliance Payments (ACP)
- Public Service Commission (PSC) orders

Each revenue source comes with specific usage directives



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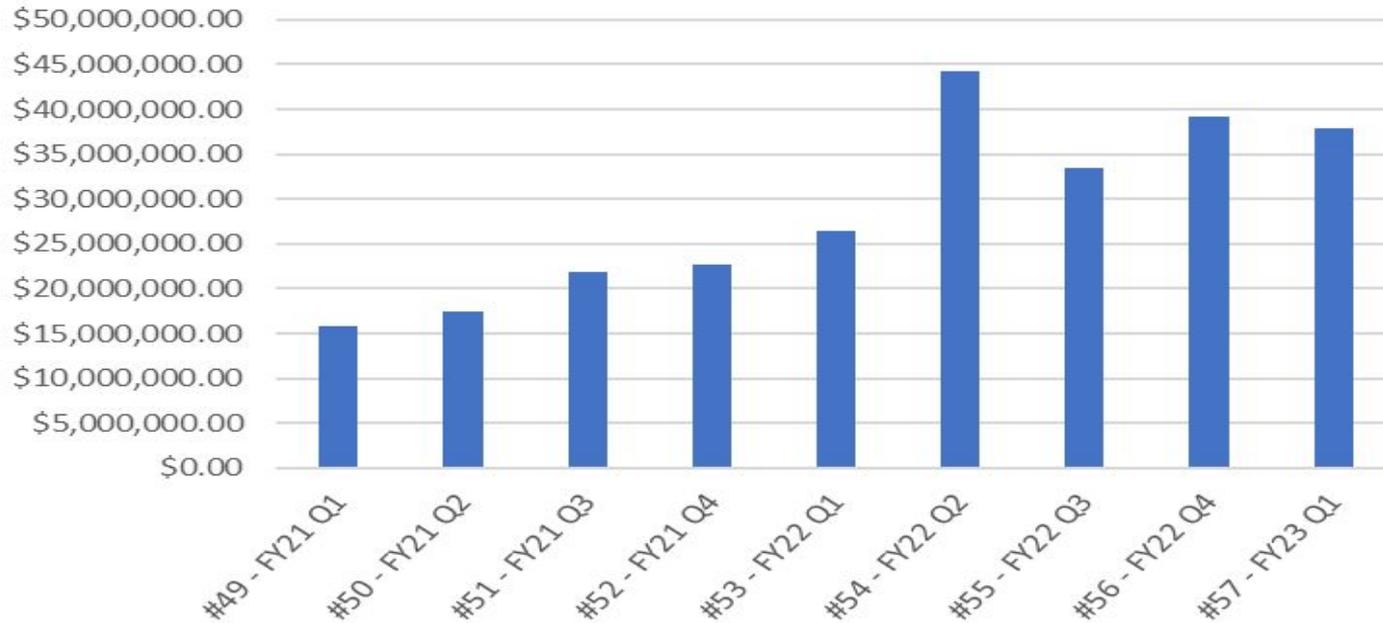
# Historical RGGI Auction Proceeds <sup>1</sup>



<sup>1</sup> Does not include \$26.9 million in cumulative set-aside allowances solid at a fixed price since FY2009



# Recent Quarterly RGGI Auction Results



# Dean Fisher - Senior Program Manager, MEA

## Low-To-Moderate (LMI) Energy Efficiency Program



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# MEA LMI Energy Efficiency Grant Program



- First introduced in 2010, and now on its 13<sup>th</sup> year of being implemented by MEA the Low-to-Moderate Income (LMI) Energy Efficiency Grant Program is funded by the Strategic Energy Investment Fund (SEIF), including a minimum of 10% of Regional Greenhouse Gas Initiative (RGGI) auction proceeds.
- The MEA competitive Low-to-Moderate Income Grant Program provides an opportunity for non-profits and local governments to receive funding to implement energy efficiency measures that benefit low-to-moderate income Marylanders.
- The LMI Program is designed to support cost-effective energy efficiency and conservation programs, projects, or activities that will benefit low-to-moderate income Marylanders.
  - Energy Efficiency measures only.
    - Renewable energy measures are separately funded within the SEIF.

# Program Details

| <b>Program Funding</b>   |   |
|--|---|
| Strategic Energy Investment Fund (SEIF) primarily via Regional Greenhouse Gas Initiative (RGGI)  | Leveraged Funds: Grants may be made in conjunction with other state, federal, or utility programs. Applicants are encouraged to pursue support through other energy efficiency programs available.        |
| <b>Who is Eligible?</b>  |   |
| Non-Profits and Local Governments serving LMI Marylanders  | <ul style="list-style-type: none"><li>• Low Income - at or below 175% of the federal poverty level</li><li>• Moderate Income - above Low Income, but at or below 85% of median income by county</li></ul> |
| <b>Allowable Measures</b>  |   |
| All forms of energy saving measures across multiple energy sources are eligible provided they are cost effective. Health and safety costs that enable implementation of energy efficiency measures are also allowed. | <ul style="list-style-type: none"><li>• Residential - 15 years payback</li><li>• Commercial - 20 years payback</li><li>• Measure savings are considered and measured in aggregate</li></ul>               |

# Eligible Building Types

## Homes

- Including Rentals & Manufactured Homes

## Multifamily Buildings

- Including Master-Metered Buildings & Multi-Story Units

## Commercial Buildings serving LMI population

- Schools, Community Centers, Retirement Centers, Mental Health Facilities, Homeless Shelters



# Project Types

## Examples of Measures

### **Whole Home/Building Retrofits: Residential and Commercial:**

LED light bulbs, ENERGY STAR® qualified appliance upgrades, insulation improvements, air sealing, control upgrades, etc.

### **New Construction with Incremental Efficiency Upgrades:**

Energy Star Appliances

### **Limited Upgrades to Existing Commercial/Residential Buildings:**

HVAC Replacement, Lighting Upgrade, Energy Kits- LED light bulbs, low-flow shower heads, and smart power strips

# FY19 Program Outcomes

| <b># of Grants to nonprofits and local government organizations in fiscal year 2019 (FY19)</b> | <b>Range of Grant Amounts</b> | <b>Annual Cost Savings from All Awards</b> |
|--|-------------------------------|--|
| 24   | \$72,000 - \$400,000          | \$350,937                                  |

The approximately \$4.5 million dispersed through the FY19 LMI program resulted in significant energy savings in over 1,350 buildings. The FY19 projects also enabled 65,000 job hours, the equivalent of more than 31 full time equivalents (FTE) for one year, for those involved with installing the energy efficiency measures.



# FY19 Program Outcomes (Cont.)

## 2019 LMI Program - Energy Savings Summary Summary

|  |                  |
|--|------------------|
| Estimated Annual Energy Cost Savings:          | <b>\$350,973</b> |
| Reduction in Electricity Consumption (kWh):    | <b>1,663,559</b> |
| Reduction in Natural Gas Consumption (MMBtu):  | 8,701            |
| Reduction in Natural Gas Consumption (Therms): | <b>87,011</b>    |
| Reduction in Natural Gas Consumption (MMcf):   | 8,701            |
| Reduction in Fuel Oil Consumption (gallons):   | 345              |

|                           |                  |
|---------------------------|------------------|
| Electric Savings          | \$217,871        |
| Fuel Savings              | \$133,102        |
| <b>Total Cost Savings</b> | <b>\$350,973</b> |

|                               |                    |
|-------------------------------|--------------------|
| Programmatic Cost             | \$3,758,152        |
| Total Health and Safety Costs | \$493,856          |
| Total Administrative Costs    | \$335,270          |
| <b>Total Invoicing</b>        | <b>\$4,587,278</b> |

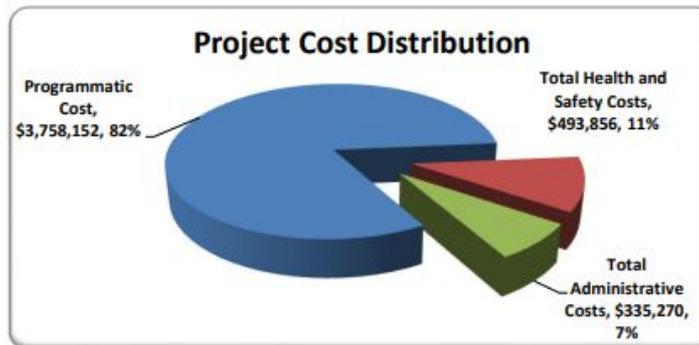
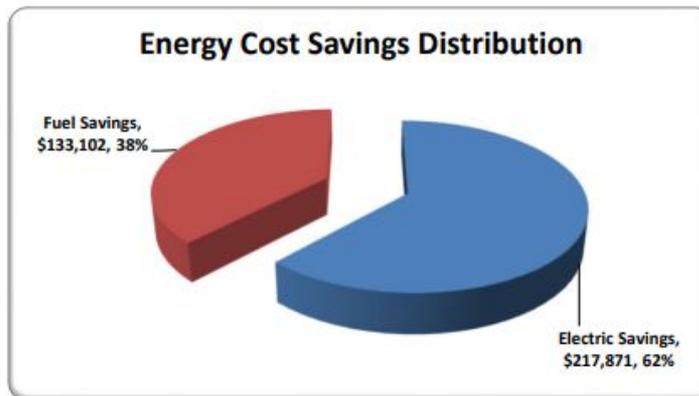
Simple Payback excluding Admin **12.11 years**

### Emission Reductions & GHG Equivalency:

|                                   |              |
|-----------------------------------|--------------|
| Annual CO2 (Metric Tons/yr)       | <b>1,018</b> |
| Passenger Vehicles                | 221          |
| Homes' Energy Use for One Year    | 123          |
| Tree Seedlings Grown for 10 Years | 16,833       |
| Acres of U.S. Forests in One Year | 1,247        |

### Other Emission Reductions (Metric Tons):

|  |        |
|--|--------|
| Annual Nitrous Oxide (N2O) (Metric Tons) | 0.0167 |
| Annual Methane (CH4)                     | 0.0310 |
| Annual Sulphur Oxide (SOx)               | 9.1403 |
| Annual Nitrogen Oxide (NOx)              | 1.7854 |



# FY20–23 Projects Currently Underway

- 2020: \$5,980,000.00
  - Status: Closing soon
- 2021: \$6,700,000.00
  - Status: Currently underway
- 2022: \$14,750,000.00
  - Status: Just beginning – scheduled to close September 2024
- 2023: \$17,000,000.00
  - Just opened for applications
    - Application Deadline: Thursday, December 1, 2022

## Closed and completed

- 2010-2019: \$44.5 Million
  - Total funding of all program years (FY2010-FY2023) to date: \$88.9 Million

An aerial photograph of a large, modern, multi-story building with a glass facade and a flat roof. The building is surrounded by a parking lot filled with cars. In the foreground, there are several long, rectangular solar panel arrays installed on the ground. The background shows a lush green landscape with many trees.

# Abigail “Abbi” Antonini - Program Manager

Low Income Solar & State Brownfield/Landfill Inventory



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# Low Income Solar Grant Program

Fund design and installation of PV systems for Low Income single family homes with energy efficiency upgrades from FY 18 - FY23



Eligible applicants include Non-profits, local governments that have participated in MEA's LMI Energy Efficiency Grant Program



Pays 100% of costs, including roof structure improvement, reroofing under array, mold remediation



10 kW and \$25,000 limit per home



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[www.Energy.Maryland.gov](http://www.Energy.Maryland.gov)

# FY22 AWARDEES

Arundel Community Development Services

Building Change, Inc.

Civic Works

Green & Healthy Homes (GHHI)

# Chris Rice - Chief of Staff, MEA

- The Need For Flexibility
  - Current Challenges
    - Electric Vehicle Supply Equipment (EVSE) Rebate
    - Energy Storage Tax Credit
  - New Programs
    - OPEN
    - IIJA/IRA
- Possible Changes to Implement



[energy.maryland.gov](http://energy.maryland.gov)

Additional Suggestions  
or Inquiries:

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